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ABSTRACT

The bulletin, which is part of the New York State "Health Occupations Education Program Development Guide Series," focuses on the dental assisting program. The curriculum is designed to provide training for dental assistants in their assistant role at chairside, in the dental operatory and laboratory, and in the dental office and reception area. A seven-part curriculum outline covers: introduction to dental assisting, office management, basic bio-dental sciences, dental operatory procedures, dental laboratory procedures, dental radiography, and supervised clinical experience. Work center and general equipment needs are discussed, and a list of equipment, and supply guidelines developed at the national level also is included. (EA)

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HEALTH OCCUPATIONS EDUCATION PROGRAM DEVELOPMENT GUIDE NO. 5: DENTAL ASSISTING

HOE Program Development Guide Series,
#5, Tentative, January 1972

THE UNIVERSITY OF THE STATE OF NEW YORK
The State Education Department
Division of Occupational Education Instruction
Bureau of Health Occupations Education
Albany, New York 12210

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HEALTH OCCUPATIONS EDUCATION PROGRAM DEVELOPMENT GUIDE SERIES

INTRODUCTION

The HOE Progr[illegible] Guide Series consists of a number of bulletin[illegible] assist local occupational education administr[illegible]ealth Occupations Education personnel in planning, d[illegible]oping, and implementing programs to prepare youth and adults for work in the Health Services Industry. Each bulletin focuses on a particular Health Occupations Education program area and draws upon the most current resources available.

The HOE Program Development Guide for each program area is designed to provide information relative to possible program description, clustering of occupations for training, steps in establishing the program, basic program components, organization of program components in terms of occupational clusters selected, course outline, space and equipment for teaching the program, qualifications of potential students, scheduling ideas, selected resources, and other pertinent information.

Once the need for a program in a Health Occupations Education area is identified, the first responsibility of local program planners is to appoint an advisory committee of representative experts in the field. With the advice and counsel of such a group, the HOE Program Development Guide will be a useful document to alert planners to the several important aspects of the program development.

Each bulletin in this series will serve as the temporary guide to offer immediate direction until an official New York State curriculum guide can be developed for the Health Occupations Education program area. Prepared by members of the staff of the Bureau of Health Occupations Education, these guides will be issued occasionally as completed.

HEALTH OCCUPATIONS EDUCATION PROGRAM DEVELOPMENT GUIDE
NO. 5: DENTAL ASSISTING

PROGRAM DESCRIPTION

The Dental Assisting program is designed to prepare youth and adults for work in an assisting capacity under the supervision of the dentist and/or other professional, licensed dental personnel. The curriculum is planned to provide training for the Dental Assistant, and focuses on skills and knowledge appropriate to the role of the assistant at chairside, in the dental operatory, in the dental laboratory, and in the dental office and reception area. Instruction, practice, and work experience in actual job situations under professional supervision are important program components. Length of program will depend upon occupational outcomes locally identified.

POSSIBLE PLACES OF EMPLOYMENT

Work under professional supervision may be performed in such places as: hospital clinics, neighborhood or community health centers, dental offices, dental supply houses, retirement community infirmaries.

SUGGESTED QUALIFICATIONS OF STUDENT APPLICANTS

Good physical and mental health
Empathy for sick and handicapped
Muscular and visual coordination
Care and accuracy in work habits
Cleanliness and good health habits
Ability to read, comprehend, and follow directions

GENERAL STEPS IN ESTABLISHING PROGRAM

1. Determine the need for workers in this field through employer surveys, in cooperation with the local office of the New York State Employment Service, professional associations, private practitioners, health manpower councils, existing programs, other sources.

2. Survey potential student interest.

3. Establish an advisory committee or sub-advisory committee on Dental Occupations. Include representation from practicing dentists, dental hygienists, dental technologists, dental assistants; potential employing agencies, individuals, dental associations, others.

4. Develop a planning and operating budget.

5. Recruit and employ instructional staff.

6. Develop local curriculum plan based on local decisions about occupational outcomes and national accrediting/certification standards.

7. Locate space and plan the teaching facility; secure equipment, resources, and supplies.

8. Locate and make necessary arrangements for student work experiences.

9. Interpret program to potential students, local school administration and counseling staff, community, others.

10. Develop a plan for on-going program evaluation and revision as appropriate.

SUGGESTED DENTAL ASSISTING CURRICULUM OUTLINE

I. Introduction to Dental Assisting

A. Ethics

1. Code of Ethics of the American Dental Assistants Association

2. Functions of other dental personnel and their legal limitations of practice.

B. Health and Grooming

1. Personal health

2. Body mechanics such as good posture, walking, standing and sitting habits.

3. Appropriate dress and grooming in the office.

C. Employment and Job Demands

1. Job opportunities in:

private practice
State and Federal agencies
Hospitals and other institutions
Armed Forces
group practice

2. Rates of income for dental assistants

II. Office Management

A. Communications

1. Use of the telephone in a courteous, efficient manner.

2. Use of the typewriter with accuracy at a minimal rate.

3. Composition of an acceptable business letter, grammar.

4. Collection of fees.

B. Records and Files

1. Keeping records and record data as directed by dentist.

2. Processing patient recall system.

3. Maintaining an appointment book.

4. Keeping financial records.

C. Supplies

1. Ordering supplies.

2. Storage life of supplies, care of supplies, sources and storage.

3. Stock levels to be maintained.

III. Bio-Dental Sciences (Basic)

A. Oral Pathology

1. Cause and control of dental caries.

2. Common periodontal diseases.

3. Developmental anomalies.

4. Causes of inflammation of oral tissues.

B. Bacteriology

1. Transmission of disease.

2. Disinfection and sterilization.

3. Common types of bacteria, use of microscope.

C. Pharmacology

1. Normal effects of drugs and anesthetics commonly used in dentistry.

2. Use of prescriptions and laws affecting their use.

3. First-aid methods used to combat effects of certain drugs.

4. Side effects that may result to some patients from certain commonly used drugs.

D. Dental Anatomy and Physiology

1. Bones of the head.

2. Primary and permanent teeth - name, number, position and function.

3. Eruption dates.

4. Structure of teeth.

5. Proper functioning of the teeth - occlusion.

E. Diet and Nutrition

1. Essential nutrients and well-balanced diets.

2. Theories of dietary habits related to dental caries and periodontal disease.

3. Classification of foods.

IV. Dental Operatory Procedures

A. Pre-operative Procedures

1. Hand and rotary instruments.
2. Function of hand and rotary instruments.
3. Set up of basic tray.
4. Technique of passing and receiving instruments.
5. Sharpening instruments.

B. Equipment

1. Care and maintenance of the dental unit.
2. Care of various handpieces.
3. Changing belt on engine arm.
4. Care and maintenance of the dental chair.
5. Selection and use of evacuative equipment.
6. Care of evacuator.

C. Care of the Patient

1. Seating the patient.
2. Draping the patient.
3. Dismissing the patient.

D. Operative Procedures

1. Preparing the syringe.
2. Preparing set-up for rubber dam.
3. Assisting in placement and removal of rubber dam.
4. Preparing amalgam alloy.
5. Preparing set-up for preparation, condensation and carving of amalgam restorations.

6. Preparing set-up for silicate materials.

7. Preparing silicate materials.

8. Preparing set-up for gold foil restorations.

9. Annealing gold foil.

10. Assisting in the process of gold foil restorations.

11. Preparing set-ups for various fixed bridge prostheses

12. Preparing set-ups for partial dentures.

13. Preparing set-ups for full denture prosthetics.

14. Preparing set-ups for various procedures in endontics.

15. Preparing set-ups for various procedures in oral surgery.

16. Preparing set-ups for various procedures in periodontics.

17. Preparing set-ups for various procedures in orthodontics.

18. Assisting in an emergency.

19. Sterilizing all instruments and materials as necessary to the above procedures.

E. Post-operative Procedures

1. Follow through with and dismissal of patient.

2. Post-operative care of instruments, scrubbing, sterilization and disinfection, and storage.

3. Cleaning, lubricating and storing equipment.

V. Dental Laboratory Procedures

1. Mixing plaster, stones, and investment, with the aid of a vibrator and without creating bubbles.

2. Pouring plaster, stone, or investment with the use of vacuum equipment.

3. Pouring casts, models or dies for prosthetics, operative dentistry, orthodontics, pedodontics, or miscellaneous study models.

4. Using model trimmer in preparation of casts or models.

5. Mounting on articular casts.

6. Sprueing and investing wax pattern.

7. Burning out wax patterns in appropriate ovens.

8. Operating various mechanical devices used in laboratory procedures.

9. Properties and uses of all types of dental laboratory materials.

10. Safety measures in dental laboratory work.

11. Packing cases for delivery to commercial dental laboratories.

VI. Dental Radiography

A. Protection

1. Cumulative effect of radiation

2. Protection as it relates to the patient and the operator.

B. Dental films, composition, speed, types, care and storage.

C. Techniques of exposure

1. Positioning patient and placing film correctly.

2. Operating x-ray equipment in terms of angulation and exposure.

D. Processing

1. Processing and mounting x-ray films.

2. Evaluating processed film in terms of landmarks, exposure and processing faults.

VII. Supervised Clinical Experience

A. Actual Dental Situation

1. Applying skills and knowledge in an actual dental situation

such as clinics, hospitals and selected private dental practices.

2. Applying skills involved in operative procedures, surgical procedures, patient approach, laboratory duties and business procedures.

WORK CENTERS AND GENERAL EQUIPMENT NEEDS IN THE DENTAL ASSISTING FACILITY

Eight work and study centers and a staff office center are needed:

1. Dental Operatory Center

   Dental Unit and Chair, 2
   Oral Evacuator, 2
   Instrument Cabinet, 2
   Set of Instruments (Complete), 2
   Operating Stool, Assistant, 2
   Operating Stool, Dentist, 2
   Sterilizing Equipment, 2
   Storage Units for Dental Materials and Multiple Tray Set-Ups (Mayo-Type Instrument Stand), 2 (Installed Vacuum Breaker)

2. Dental Laboratory Center

   Laboratory Benches (Accommodate Maximum of 20 Students), Each Student Bench Position Equipped with Electric and Gas Outlets and Bench Lights
   Casting Machine, Encased in a Casting Well
   Inlay Furnace
   Model Trimmer
   Sink, with a Plaster Trap

3. X-Ray Room Center

   Dental Chair
   X-Ray Machine (Use must be Registered with the New York State Department of Health)
   Cabinet, or Mayo-Type Stand
   Sink
   Lead Glass Viewing Window in Doorway or Wall
   Lead-Lined Walls (or similar approved protective method)

4. Dark Room Center (Room to be "Light-Tight")
   (Free Floor Space Sufficient for Observation by 5-6 Students)

   Work Counter
   Processing Tank with Circulating Water
   Sink with Hot and Cold Water
   Drying Racks
   Storage Cabinet
   Safe-Light Lamp
   Regular Lighting Fixtures

5. Classroom Instructional Center

Tables
Chairs
Chalkboard
Projection Screen
Outlets for Audio-Visual Equipment
Library Area Bookshelves and Catalog

6. Laundry-Storage Center

Shelving
Drawer and File Units (Various Sizes)
Uniform Storage Unit
Student Project Storage Units

Washing Machine
Dryer
Sink
Base Storage Units with Counter Tops
Drying Rack
Ironing Board

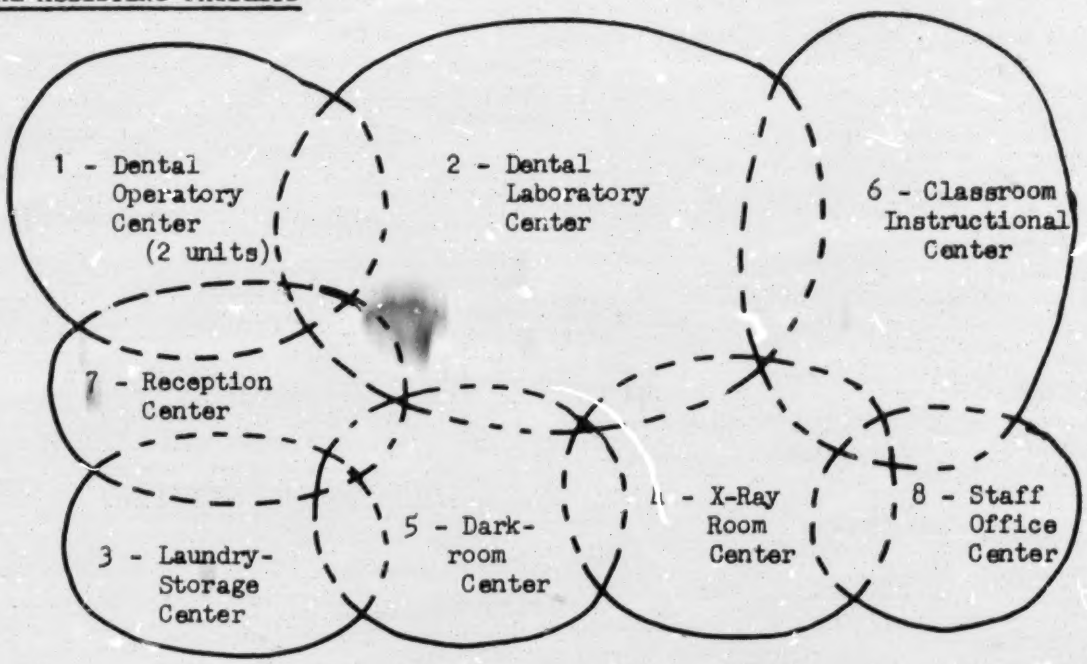
7. Reception Center

Chairs
Low Tables with Lamps
Receptionist Desk with Typewriter
Receptionist Chair
File

8. Staff Office Center

Desk
Desk Chair
Bookcase
Filing Cabinet

RELATIONSHIP OF WORK CENTERS IN DENTAL ASSISTING FACILITY


1 - Dental Operatory Center (2 units)
2 - Dental Laboratory Center
6 - Classroom Instructional Center
7 - Reception Center
4 - X-Ray Room Center
8 - Staff Office Center
5 - Dark-room Center
3 - Laundry-Storage Center

Factors to consider in planning facility:

- Consolidation of plumbing (Water in Centers #1-5)
- Adequate electrical wiring
- Sufficient electrical outlets all centers, extra in #2
- Gas outlets in centers #1, 2, 4
- Safe-light in Center #5
- Lead glass for viewing area between Centers #4 and 2 and/or 6
- Lead-lined walls for Center #4
- Solid walls for Centers #4 and 5
- Centers #1, 2, 3, 6, and 7 may be in a self-contained room if desired, bordered by Centers #4 and 5

ACCREDITATION OF DENTAL ASSISTING PROGRAMS

It is the policy of the Council on Dental Education to accredit programs for the training of dental assistants, providing that administrators reponsible for the program indicate a desire for evaluation.

DENTAL ASSISTANT CERTIFICATION

Upon completion of the required formal training, graduates of accredited programs are eligible to take the certification examination conducted by the Certifying Board of the American Dental Assistants Association.

[1] For further information refer to publication Requirements for the Approval of Educational Programs for Dental Assistants, American Dental Association.

PARTIAL LIST OF RESOURCES

American Dental Assistants Association, 211 East Chicago Avenue, Chicago, Illinois 60611

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California State Department of Education. A Model Program for Dental Assisting Education in California: Bureau of Industrial Education, Sacramento, 1968. 36 pages. Available from State of California, Department of Education, 721 Capitol Mall, Sacramento, California 95814. A guide for the development of new programs or for improvement of existing programs of dental assisting.

U. S. Department of Health, Education, and Welfare. Organizing a Dental Assisting Training Program: U. S. Government Printing Office, 1965. Available from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402. Price 35 cents. This guide provides a concise description of all aspects to be considered in planning and establishing a dental assisting training program. Floor plans for facilities, lists of necessary equipment, instruments and supplies, and a list of knowledges and skills to be taught are included. A bibliography provides a list of books for instructors and other references.

EQUIPMENT FOR THE PROGRAM: The following list of equipment and supplies is one developed at the national level. It will serve as a guide for local program developers in conjunction with suggestions by the local advisory committee members and other expert advice.'

SOURCE: U. S. Department of Health, Education and Welfare, Organizing a Dental Assisting Training Program: U. S. Government Printing Office, Washington, D. C., Appendix D, Pages 35-43.

Equipment and Supplies For Dental Assisting Program[1]

Demonstration Operatories

Group I—Fixed Equipment

Item no.	Item	Approximate retail price	Number required	Total cost
1	Dental chair:			
	A. Foot operated	$900.00		
	B. Power chair	1,325.00		
	C. Power chair (lounge-type)	1,700.00		
2	Dental unit:			
	A. Conventional, with air turbine and air/water combination 110 v., 60 cycles, a.c.	2,000.00		
	B. Cabinet, mounted unit with airoter handpieces. Cabinet, 36" x 19" x 17" (may be fixed or mobile)	1,525.00		
3	Cabinet, dental instrument (see under Group II, Movable Equipment)			
4	Cabinet, sink, and accessories: (For operatories).			
	A. Cabinet-modular, 36" x 24" x 18" with waste drop and receptacle, and/or towel drop and receptacle	140.00		
	B. Sink for above cabinet, stainless steel 12" x 18" x 6" complete with mounting rim, strainer, and stopper	40.00		
	C. Gooseneck spout for above sink with aerator	12.00		
	D. Foot control valve, floor mounted	48.00		
5	Light, dental operating:			
	A. Unit mounted	250.00		
	B. Ceiling mounted	365.00		
6	Dispenser:			
	Soap	3.00		
	Paper towel	5.00		
	Paper cup	2.50		

[1] This equipment and supplies list is intended to serve as a guide and a worksheet in estimating costs. Group I includes fixed equipment, and Group II includes movable equipment. The instruments and supplies listed are standard items common to most dental offices. The prices indicated are average costs, and will vary according to area and manufacturer. The number required depends upon the number of students, and a column is provided to make this determination and also to extend the total cost.

Demonstration Operatories—Continued

Group II—Movable Equipment

Item no.	Item	Approximate retail price	Number required	Total cost
7	Cabinet, mobile (with cord reel), for oral evacuation equipment, 36" x 18" x 17"	$175.00		
8	Oral evacuator for above cabinet	185.00		
9	Cabinet, dental, mobile-modular type, 36" x 18" x 17", with sliding surgical compartment treatment tray insert with 8 stainless steel trays. (May be fixed if desired.)	360.00		
10	Cabinet, dental instrument, mobile, 36" x 18" x 17", complete with accessories	250.00		
11	Autoclave, bench type	440.00		
12	Handpiece, straight dental, round nose, high speed, No. 10	85.00		
13	Handpiece, contra-angle FF–N with double air/water spray, permanently attached	50.00		
14	Handpiece, contra-angle, long sleeve, amalgam condensing "Amal-Pac," complete set, for No. 10 handpiece	32.00		
15	Handpiece, prophylaxis, contra-angle D, with long sleeve for No. 10 handpiece	18.00		
16	Amalgamator, dental, 110 v., 60 cycles, a.c	75.00		
17	Sterilizer, oil	45.00		
18	Stool, operating, posture-chair type	275.00		
19	Receptacle, waste	10.00		
20	Mat, floor rubber	20.00		

Laboratory

Group I—Fixed Equipment

21	Casting machine (centrifugal)	$85.00		
22	Casting machine (electric)	425.00		
23	Model trimmer	100.00		
24	Lathe, dental laboratory, 115 v., 60 cycles, 2-speed complete with bur chuck, 1 RH stone chuck, 1 LH regular stone chuck, 1 RH spiral chuck and 1 LH regular spiral chuck	65.00		
25	Light, laboratory bench	12.00		
26	Bunsen burner	2.00		

Group II—Movable Equipment

27	Chairs, typists', posture-type, nontilting, fixed back	$15.00		
28	Investor, vacuum, with accessories	225.00		
29	Torch, welding	10.00		
30	Bath, water, thermostatically controlled 110 v., 60 cycle, a.c	83.00		
31	Inlay furnace	95.00		
32	Dental engine, bench-type, 110 v., 60 cycle, a.c	360.00		
33	Handpiece, straight dental, round nose, No. 10	85.00		
34	Dust collector	55.00		
35	Vibrator, dental model, 110 v., 60 cycles, a.c	20.00		
36	Soldering block	3.00		

X-Ray Room

Group I—Fixed Equipment

Item no.	Item	Approximate retail price	Number required	Total cost
37	X-ray, stationary-type, (90 kv.) 110 v., 60 cycles, a.c. (separate control)	$1,600.00		
38	Chair, dental:			
	A. Foot operated	900.00		
	B. Power chair (conventional headrest)	1,325.00		
39	Dispenser, dental X-ray film	15.00		
40	Receptacle, dental X-ray film	7.00		
41	Dispenser, paper towel	5.00		
42	Sink, stainless steel, 12" x 18" x 6", complete with mounting rim, strainer, and stopper	40.00		
43	Gooseneck spout	12.00		
44	Foot control valves, floor mounted	48.00		

Group II—Movable Equipment

45	Cabinet, dental operating	$180.00		
46	Illuminator, X-ray film	25.00		
47	Apron, X-ray protective	25.00		
48	Extension cone, X-ray, 16" unit	28.00		

Darkroom

Group I—Fixed Equipment

49	Tank, processing dental X-ray film, 5 gallon, complete	$120.00		
50	Safelight, darkroom radiographic, adjustable with 5½" diameter filter	15.00		
51	Dental viewer, recessed	25.00		
52	Sink, stainless steel	36.00		
53	Gooseneck spout	12.00		

Group II—Movable Equipment

54	Drier, dental film	$25.00		
55	Hanger, X-ray film processing, dental	1.00		
56	Timer, interval, mechanical	3.00		

Classroom, Office, and Reception Room

57	Appropriate classroom, office, and reception room equipment	School prices		

Small Dental Equipment

58	Blowtorch, alcohol	$13.00		
59	Book, appointment	2.00		
60	Bowl, plaster, No. 2, medium	1.00		
61	Bowl, plaster, No. 3, small	.80		
62	Broach, root canal, coarse, 12's	1.50		
63	Broach, root canal, extra fine, 12's	1.50		
64	Broach, root canal, fine, 12's	1.50		
65	Bur, angle-handpiece, No. ½, 6's	.70		
66	Bur, angle-handpiece, No. 2, 6's	.70		
67	Bur, angle-handpiece, No. 4, 6's	.70		
68	Bur, angle-handpiece, No. 4, short-neck, 6's	.70		
69	Bur, angle-handpiece, No. 33½, 6's	.70		
70	Bur, angle-handpiece, No. 35, 6's	.70		
71	Bur, angle-handpiece, No. 35, short-neck, 6's	.70		
72	Bur, angle-handpiece, No. 37, 6's	.70		

Small Dental Equipment—Continued

Item no.	Item	Approximate retail price	Number required	Total cost
73	Bur, angle-handpiece, No. 39, 6's	$0. 70		
74	Bur, angle-handpiece, No. 557, 6's	. 70		
75	Bur, angle-handpiece, No. 558, 6's	. 80		
76	Bur, angle-handpiece, No. 558, short-neck, 6's	. 80		
77	Bur, angle-handpiece, No. 559, 6's	. 80		
78	Bur, angle-handpiece, No. 560, 6's	. 80		
79	Bur, angle-handpiece, No. 700, 6's	. 80		
80	Bur, angle-handpiece, No. 702, 6's	. 80		
81	Bur, dental, excavating, angle-handpiece, No. 4, tungsten carbide	1. 40		
82	Bur, dental, excavating, angle-handpiece, No. 35, tungsten carbide	1. 40		
83	Bur, dental, excavating, angle-handpiece, No. 37 tungsten carbide	1. 40		
84	Bur, dental, excavating, angle-handpiece, No. 39, tungsten carbide	1. 40		
85	Bur, dental, excavating, angle-handpiece, No. 558, tungsten carbide	2. 00		
86	Bur, dental, excavating, angle-handpiece, No. 559, tungsten carbide	2. 00		
87	Bur, dental, excavating, angle-handpiece, No. 560, tungsten carbide	2. 00		
88	Bur, dental, excavating, angle-handpiece, No. 701, tungsten carbide	2. 00		
89	Bur, dental, excavating, angle-handpiece, No. 702, tungsten carbide	2. 00		
90	Bur, denture, trimming, straight handpiece, No. 1, 6's	2. 00		
91	Bur, straight handpiece, No. ½, 6's	. 70		
92	Bur, straight handpiece, No. 2, 6's	. 70		
93	Bur, straight handpiece, No. 4, 6's	. 70		
94	Bur, straight handpiece, No. 6, 6's	. 70		
95	Bur, straight handpiece, No. 8, 6's	. 70		
96	Bur, straight handpiece, No. 33½, 6's	. 70		
97	Bur, straight handpiece, No. 35, 6's	. 70		
98	Bur, straight handpiece, No. 37, 6's	. 70		
99	Bur, straight handpiece, No. 557, 6's	. 80		
100	Bur, straight handpiece, No. 558, 6's	. 80		
101	Bur, straight handpiece, No. 559, 6's	. 80		
102	Bur, straight handpiece, No. 700, 6's	. 80		
103	Bur, straight handpiece, No. 701, 6's	. 80		
104	Bur, straight handpiece, No. 702, 6's	. 80		
105	Bur, surgery, angle-handpiece, Henahan, No. 41, 6's	2. 50		
106	Bur, surgery, straight handpiece, Henahan, No. 41, 6's	2. 50		
107	Caliper, Vernier, boley gage	4. 00		
108	Dish, medicament, dappen	. 50		
109	Dispenser, absorbent cotton	3. 00		
110	Dispenser, alloy-mercury	12. 50		
111	File, half round, 6 inches	2. 00		
112	File, root canal, assorted, 1¼ inch, set of 6	1. 50		
113	Handle, mouth mirror	. 80		
114	Holder, broach	1. 00		
115	Holder, cotton roll	6. 00		
116	Holder, napkin	1. 00		
117	Impression tray, crown and bridge, No. 87	. 50		
118	Impression tray, edentulous, lower, No. 51	1. 00		
119	Impression tray, edentulous, lower, No. 53	1. 00		
120	Impression tray, edentulous, lower, No. 56	1. 00		
121	Impression tray, edentulous, upper, No. 41	1. 00		
122	Impression tray, edentulous, upper, No. 43	1. 00		
123	Impression tray, edentulous, upper, No. 45	1. 00		
124	Impression tray, hydrocolloid, lower, large, perforated, No. 618	2. 00		
125	Impression tray, hydrocolloid, lower, medium, perforated, No. 622	2. 00		
126	Impression tray, hydrocolloid, lower, small, perforated, No. 624	2. 00		
127	Impression tray, hydrocolloid, upper, large, perforated, No. 601	2. 00		
128	Impression tray, hydrocolloid, upper, medium, perforated, No. 605	2. 00		

Small Dental Equipment—Continued

Item no.	Item	Approximate retail price	Number required	Total cost
129	Impression tray, hydrocolloid, upper, small, perforated, No. 607	$2.00		
130	Instrument, diamond, mounted, angle-handpiece, cylindrical, 1/16 x 1 3/64 inches (Star Dental No. 25X, RA)	6.50		
131	Instrument, diamond, mounted, angle-handpiece, inverted cone, 3/64 x 1/16 inches (Star Dental No. 7, RA)	6.50		
132	Instrument, diamond, mounted, angle-handpiece, inverted cone, 1/16 x 3/64 x 1/16 inches (Star Dental No. 7X, RA)	6.50		
133	Instrument, diamond, mounted, angle-handpiece, tapered cone, 1/16 x 3/64 x 1/4 inches (Star Dental No. 1X, RA)	6.50		
134	Instrument, diamond, mounted, angle-handpiece, 1/4 x 1/32 inches (Star Dental 35, RA)	6.50		
135	Instrument, diamond, mounted, angle-handpiece, 1/16 x 3/64 inches (Star Dental 36, RA)	6.50		
136	Instrument, diamond, mounted, straight, handpiece, cylindrical, 1/16 x 1 3/64 inches (Star Dental 25X, HP)	6.50		
137	Instrument, diamond, mounted, straight handpiece, inverted cone, 1/16 x 1/16 x 3/64 inches (Star Dental 7, HP)	6.50		
138	Instrument, diamond, mounted, straight handpiece, tapered cone, 1/16 x 3/64 x 1/4 inches (Star Dental 1X, HP)	6.50		
139	Instrument, diamond, mounted, straight handpiece, 1/4 x 1/32 inches (Star Dental 35, HP)	6.50		
140	Knife, compound, dental	1.00		
141	Mallet, plugging	3.50		
142	Mandrel, angle-handpiece, screwhead, 6's	1.50		
143	Mandrel, straight handpiece, Morgan, Maxfield, 6's	3.50		
144	Mandrel, straight, handpiece, screwhead 6's	1.50		
145	Mirror, mouth, plain glass	.50		
146	Mixing slab, glass, 3×6 inches	2.00		
147	Mortar and pestle	2.00		
148	Mouthpiece, saliva ejector	2.50		
149	Pliers, No. 200, aderer, 3 prong	8.50		
150	Pliers, No. 134, clasp bending	10.50		
151	Pliers, No. 102, cone socket	8.50		
152	Pliers, No. 111, How	9.00		
153	Pliers, No. 137, contouring	8.50		
154	Pliers, wire nippers	4.00		
155	Reamer set, root canal, set of 6	2.50		
156	Retainer, matrix, No. 1	11.00		
157	Retainer, matrix, No. 9	12.00		
158	Retainer, matrix, Tofflemire, contra-angle, adult	17.50		
159	Retainer, matrix, Tofflemire, contra-angle, junior	15.00		
160	Scissors, collar and crown, 4½ inches universal	3.50		
161	Shears, metal cutting, straight 7¼ inches	3.00		
162	Spatula, dental, cement, No. 324	2.50		
163	Spatula, dental, No. 2, chrome-cobalt	5.50		
164	Spatula, dental, plaster	1.50		
165	Spatula, dental, wax, No. 7	2.00		
166	Spatula, dental, wax, No. 31	3.50		
167	Stone, sharpening, dental instruments	15.00		
168	Syringe, irrigating, Moffat	2.50		

Dental Instruments
(Cutting, Plastic, etc.)

169	Black (cleoid-discoid), No. 88–92	$3.00		
170	Burnisher, No. 27–29, see also carver P.F.I., No. 21	3.00		
171	Carrier, amalgam	3.50		
172	Carver, Hollenbach, No. 3	3.00		
173	Carver, Roach, D.E	4.00		
174	Carver, Wall, No. 3	3.00		
175	Carver, Ward, No. 1	3.00		
176	Chisel, No. 48–48S	3.00		
177	Chisel, bin-angle, Black, No. 81–82	3.00		
178	Chisel, Weidelstadt, No. 41–42	3.00		
179	Chisel, Weidelstadt, No. 43–44	3.00		
180	Enamel hatchet, Black, No. 49–50	3.00		
181	Enamel hatchet, Black, No. 51–52	3.00		
182	Excavator, No. 11	2.00		

Dental Instruments—Continued

(Cutting, Plastic, etc.)

Item no.	Item	Approximate retail price	Number required	Total cost
183	Excavator, No. 16	$2.50		
184	Excavator, No. 17	2.50		
185	Excavator, No. 18	2.50		
186	Excavator, Darby-Perry, No. 5–6	3.00		
187	Excavator, Darby-Perry, No. 21–22	3.00		
188	Explorer, No. 5, D.E. (No. 17–23)	1.50		
189	Explorer, No. 17	1.00		
190	Explorer, No. 23	1.00		
191	File, periodontal, Bunting, No. 15–16	4.00		
192	Forceps, dressing, No. 17	1.50		
193	Gingival marginal trimmer, Black, No. 77–78	3.00		
194	Gingival marginal trimmer, Black, No. 79–80	3.00		
195	Needle, hypodermic, cartridge-type, 25 gauge, 1⅛ inch, 12's	2.50		
196	Needle, hypodermic, cartridge-type, 26–27 gauge, 1⅛ inch, 12's	4.00		
197	Plastic filling instrument, Stellite, No. 1–2	4.00		
198	Plastic filling instrument, Woodson No. 1, D.E.	3.00		
199	Plastic filling instrument, Woodson No. 2, D.E.	3.00		
200	Plastic filling instrument, Woodson No. 3, D.E.	3.00		
201	Plugger, amalgam, Black, No. 1–2	3.00		
202	Plugger, amalgam, Black, No. 2–3	3.00		
203	Plugger, amalgam, Black, No. 4–5	3.00		
204	Plugger, amalgam, Marquette	3.50		
205	Plugger, amalgam, Smith	3.00		
206	Plugger, root canal, No. 1	2.00		
207	Plugger, root canal, No. 3	2.00		
208	Plugger, root canal, No. 5	2.00		
209	Plugger, root canal, No. 7	2.00		
210	Plugger, root canal, No. 9	2.00		
211	Plugger, root canal, No. 11	2.00		
212	Scaler, No. 12 (regular No. 33–34)	4.00		
213	Scaler, Jaquette, No. 1–B	3.50		
214	Scaler, Jaquette, No. 2–3	3.50		
215	Scaler, McCall, No. 11a–12a	3.50		
216	Scaler, McCall, No. 3–5	3.50		
217	Scaler, McCall, No. 4–8	3.50		
218	Scaler, regular, No. 2–3	3.50		
219	Syringe, cartridge-type	5.50		

Dental Instruments

(Oral Surgery)

220	Chisel, dental, Moose, No. 1	$4.50		
221	Chisel, dental, Moose, No. 2	4.50		
222	Chisel, dental, Moose, No. 3	4.50		
223	Chisel, dental, Moose, No. 4	4.50		
224	Chisel, dental, Moose, No. 5	4.50		
225	Curette, No. 10, D.E.	3.00		
226	Curette, No. 11, D.E.	3.00		
227	Curette, No. 12, D.E.	3.00		
228	Elevator, apical, No. 301	5.50		
229	Elevator, Howard, No. 1	5.00		
230	Elevator, periosteal, Moose, No. 3	6.00		
231	Elevator, and retractor, periosteal, Seldin No. 23	7.00		
232	Elevator, root, Howard, No. 2	5.00		
233	Elevator, root, Howard, No. 3	5.00		
234	Elevator, root, No. 34S	5.00		
235	Elevator, root, Miller, No. 73	5.00		
236	Elevator, root, Miller, No. 74	5.00		
237	Elevator, root, Stout A	5.00		
238	Elevator, Winter, No. 1L	6.00		
239	Elevator, Winter, No. 1R	6.50		
240	Elevator, Winter, No. 122	6.50		
241	Elevator, Winter, No. 123	6.50		
242	Elevator, Winter, No. 135	6.50		
243	File, bone, Moose, No. 3	6.50		
244	File, bone, Moose, No. 4	6.50		
245	File, bone, Moose, No. 5	6.50		
246	Forceps, Mead, No. 3, lower anteriors and bicuspid	22.00		

Dental Instruments—Continued

(Oral Surgery)

Item no.	Item	Approximate retail price	Number required	Total cost
247	Forceps, No. 17, lower first and second molar, universal	$17.00		
248	Forceps, No. 222, lower third molar, universal	17.00		
249	Forceps, No. 203, universal, lower incisor, bicuspid, and root	17.00		
250	Forceps, No. 151, universal, lower incisor, and bicuspid	17.00		
251	Forceps, No. 23, universal, lower molar (Hornbeak)	17.00		
252	Forceps, No. 65, upper anteriors, and root	17.00		
253	Forceps, No. 286, upper anteriors, bicuspids and roots	17.00		
254	Forceps, No. 53, upper, left, first and second molars	17.00		
255	Forceps, No. 53R, upper, right, first and second molars	17.00		
256	Forceps, No. 210, upper third molar	17.00		
257	Forceps, No. 150, upper universal	17.00		
258	Forceps, No. 1, Winter, upper anteriors	17.00		
259	Knife, lancet, No. 2, Henahan	4.50		
260	Mallet, oral surgery	3.50		
261	Rongeurs, Blumenthal, No. 3, bone forceps, short handle, 5¼ inches	12.00		
262	Rongeurs, Mead, No. 1A, end cutting	20.00		
263	Rongeurs, No. 4A	12.00		
264	Scissors, oral surgery, curved, 5 inches, blunt	5.50		
265	Scisseors, oral surgery, saw tooth 6¼ inches	9.50		

Laboratory Equipment (Minor)

266	Blade, dental laboratory saw	$ .30		
267	Block, soldering, dental, charcoal	1.50		
268	Brush, artist's, inlay, No. 3	.60		
269	Brush, denture	1.50		
270	Brush, wheel, 2 rows, No. 12	.50		
271	Brush, wheel, 3 rows, No. 26	1.50		
272	Brush, wheel, 4 rows, No. 29	1.00		
273	Brush, scratch, metal	.50		
274	Buff, wheel, chamois, 3 inches	1.50		
275	Buff, wheel, cloth, 4 inches	1.00		
276	Cone, felt, dental grinding, blunt	1.00		
277	Cone, felt, dental grinding, pointed	1.00		
278	Face bow, articulator, dental	9.00		
279	Frame, dental laboratory saw	3.50		
280	Knife, dental laboratory	1.00		
281	Tweezers, Craftsman's, soldering, "L"	.60		
282	Tweezers, soldering, "K", locking	1.00		
283	Vise, bench, clamp base	2.50		

Laboratory Supplies

284	Abrasive paste, dental, silicon carbide, 3 oz	$1.00		
285	Asbestos strip, dental, 100 feet	1.70		
286	Band, abrasive, grit No. 80, 100's	1.70		
287	Baseplate, dental, lower, 12's	1.00		
288	Baseplate, dental, upper, 12's	1.00		
289	Buffing compound, Tripoli, ¼ lb	.30		
290	Cellophane, 100's	.50		
291	Clay, modeling, ½ lb	1.00		
292	Flux, casting, dental, reducing, 1 oz	.50		
293	Flux, soldering paste, ½ oz	1.00		
294	Pumice, coarse, 1 lb	.40		
295	Pumice, flour, 1 lb	.50		
296	Resin, acrylic, denture base, pink, 12 units	15.00		
297	Resin, acrylic, denture base, repair, self-curing	6.00		
298	Resin, acrylic, denture base for rebasing dentures	10.00		
299	Wax, baseplate	1.00		
300	Wax, inlay	1.00		
301	Wax, sticky	1.00		

Miscellaneous Supplies

Item no.	Item	Approximate retail price	Number required	Total cost
302	Abrasive wheels, heatless stone, assorted, 36's	$3. 00		
303	Band, matrix, bicuspid, medium, No. 9, 12's, for use with retainer, matrix No. 9	1. 00		
304	Band, matrix, bicuspid, narrow, 12's	1. 00		
305	Band, matrix, bicuspid, wide, 12's	1. 00		
306	Band, matrix, molar, medium, 12's	1. 00		
307	Band, matrix, molar, narrow, 12's	1. 00		
308	Band, matrix, molar, wide, 12's	1. 00		
309	Band, matrix, bicuspid, medium No. 1, 12's, for use with retainer, matrix No. 1	1. 00		
310	Band, matrix, dental, bicuspid, narrow, 12's, for use with retainer, matrix No. 1	1. 00		
311	Band, matrix, dental, bicuspid, wide, 12's, for use with retainer, matrix No. 1	1. 00		
312	Band, matrix, dental, molar, medium, 12's, for use with retainer, matrix No. 1	1. 00		
313	Band, matrix, dental, molar, narrow, 12's, for use with retainer, matrix No. 1	1. 00		
314	Band, matrix, dental, molar, wide No. 1, 12's, for use with retainer, matrix No. 1	1. 00		
315	Band, matrix, universal band for use with Tofflemire adult matrix retainer, 12's	1. 00		
316	Band, matrix, M.O.D. narrow band for use with Tofflemire adult matrix retainer, 12's	1. 00		
317	Band, matrix, M.O.D. wide band for use with Tofflemire adult matrix retainer, 12's	1. 00		
318	Band, matrix, child's universal band No. 13, for use with Tofflemire matrix retainer, junior, 12's	1. 00		
319	Band, matrix, child's M.O.D. wide No. 15, for use with Tofflemire matrix retainers, junior, 12's	1. 00		
320	Brush, mandrel mounted, assorted, 12's	1. 00		
321	Cavity lining set	5. 00		
322	Cement, silicate with liquid, No. 20	5. 00		
323	Cement, silicate with liquid, No. 21	5. 00		
324	Cement, silicate with liquid, No. 22	5. 00		
325	Cement, silicate with liquid, No. 23	5. 00		
326	Cement, silicate with liquid, No. 24	5. 00		
327	Cement, silicate with liquid, No. 25	5. 00		
328	Cement, zinc phosphate, light yellow with liquid	3. 00		
329	Cleaner, handpiece, 2 oz	1. 00		
330	Cloth, squeeze, 100's	1. 00		
331	Cotton, roll ⅜ x 1½ inches, 1,000's	3. 00		
332	Cover, bracket table, 500's	7. 50		
333	Cover, headrest, 250's	5. 50		
334	Cup, paper, drinking, 100's	1. 00		
335	Cup, polishing, handpiece, rubber, set of 12	1. 00		
336	Disk set, paper assorted, 525's	2. 00		
337	Floss, dental, 100 yards	1. 50		
338	Grease, handpiece, ½ oz	. 50		
339	Impression compound, black, ½ lb	1. 00		
340	Impression material, rakes, red	1. 00		
341	Impression material, compound, sticks, red, ¼ lb	1. 00		
342	Impression material, dental, paste	4. 00		
343	Impression material, hydrocolloid alginate	4. 50		
344	Lidocaine hydrochloride with epinephrine injection, cartridges, 50's	5. 50		
345	Lubricant, silicate cement	. 50		
346	Matrix set, resin crown forms	9. 00		
347	Mercury, 1 lb	9. 00		
348	Paper, articulating	1. 00		
349	Points, root canal, guttapercha assorted	1. 50		
350	Points, root canal, paper 200's	3. 00		
351	Sealer, root canal	4. 00		
352	Silver alloy powder, amalgam, 5 oz	14. 00		
353	Stones, mounted for contra-angle handpiece, assorted	5. 00		
354	Stones, mounted for straight handpiece, assorted	5. 00		
355	Strip, abrasive, coarse grit, plastic 100's	1. 50		
356	Strip, abrasive, fine grit, plastic 100's	1. 50		
357	Strip, abrasive, medium grit, plastic 100's	1. 50		
358	Strip, lightning, 12's	1. 50		
359	Strip, plastic celluloid	1. 00		
360	Tape, flat ⅛ inch, 100 yards	$1. 50		
361	Wedge set, matrix, wooden	1. 50		
362	Wheel, abrasive, impregnated rubber	1. 00		
363	Wheel, abrasive, silicon carbide	1. 50		
364	Wheel, rubber, Burlew, 30's	1. 50		